

DNA sample



•Bisulfite Treatment



•PCR with primers specific
for bisulfite-converted DNA



• Agarose gel electrophoresis
• Isolate PCR product



Methylated

—CG—
—GC—

Unmethylated

—TG—
—AC—

+ Ms-SNuPE primer(s)

→
—GC—

→
—AC—

• Primer extension

+ ³²P-dCTP

+ ³²P.TTP

→C*
—GC—

→T*
—AC—

Figure 1

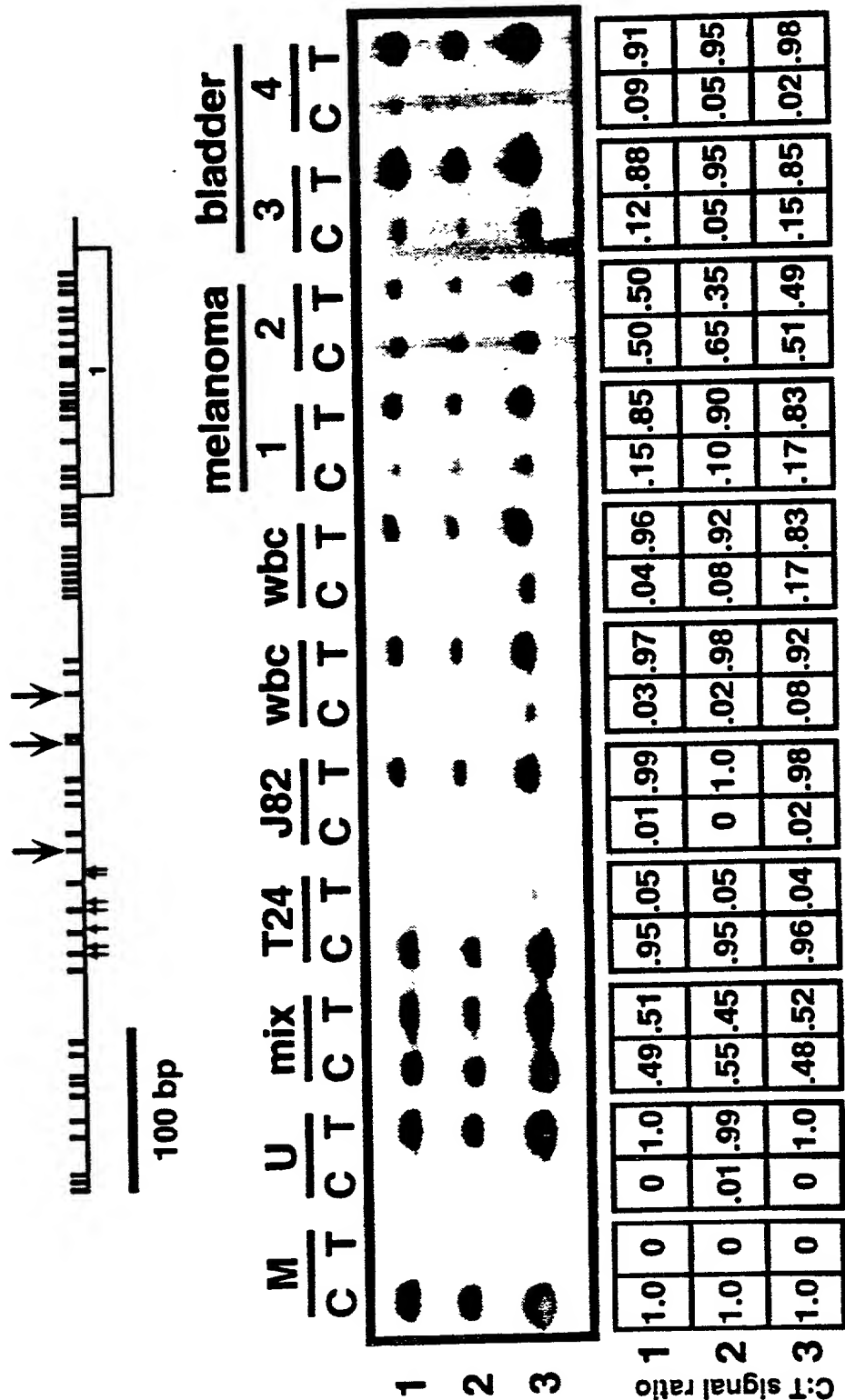


Figure 2

Linear Response of Ms-SNuPE Assay

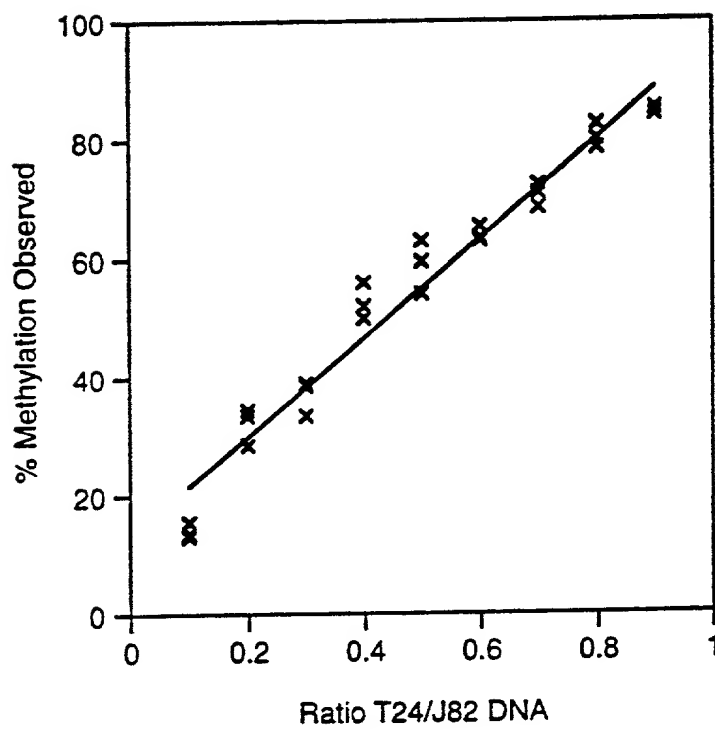


Figure 3

High-throughput Quantitation of DNA Methylation Using Ms-SNuPE Blot Transfer Protocol

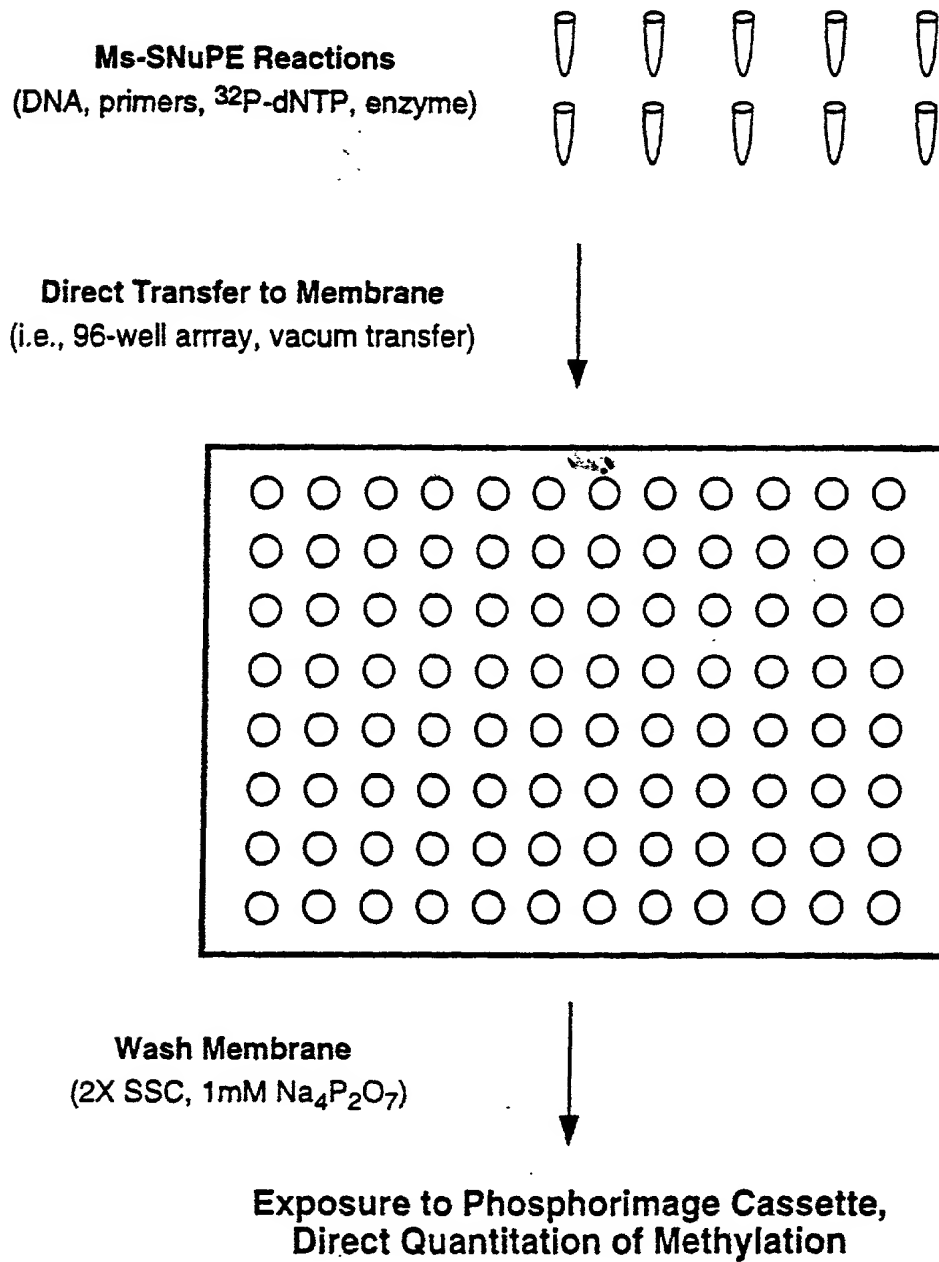
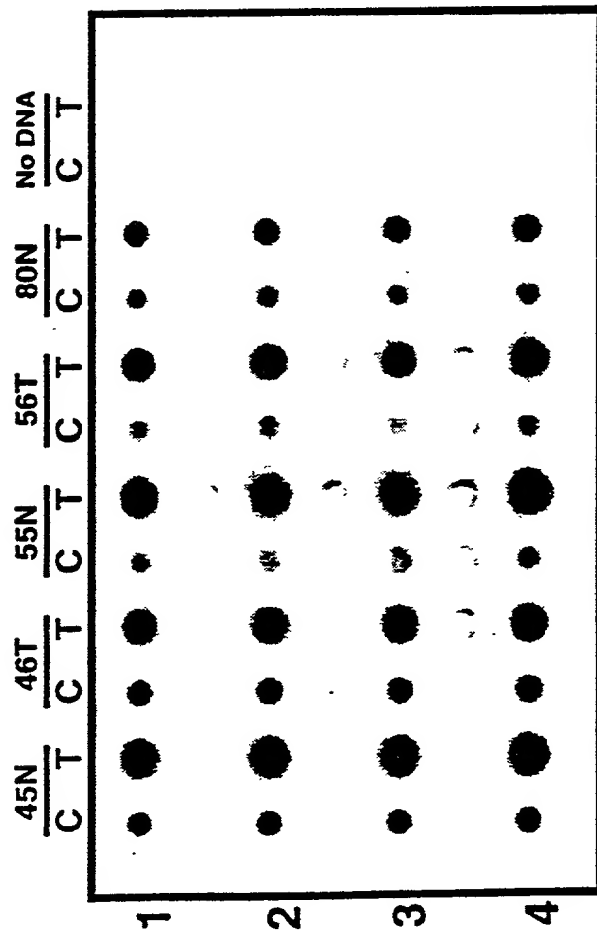


Figure 4

A



B

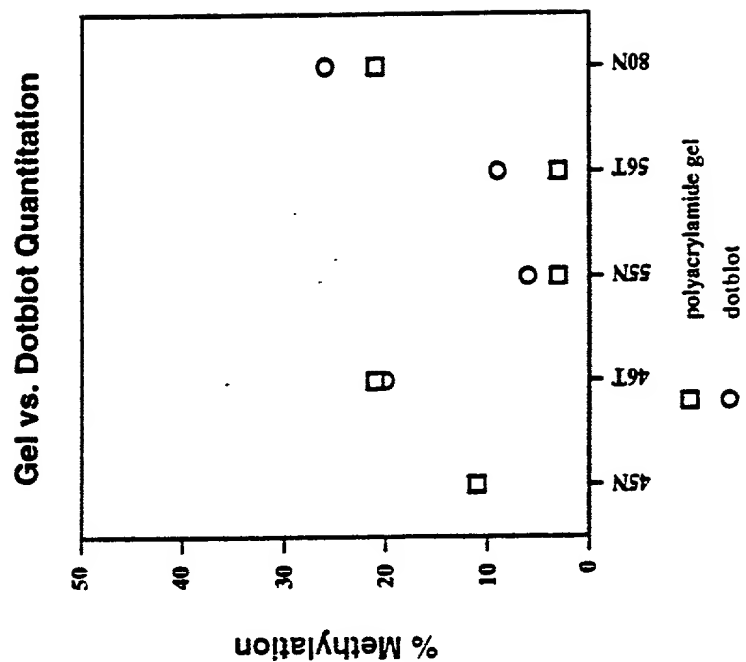


Figure 5